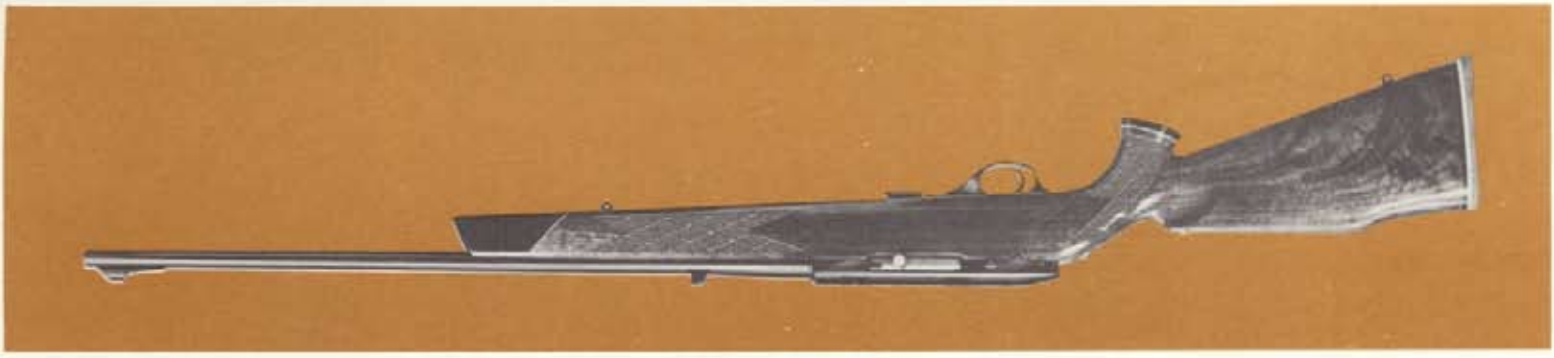
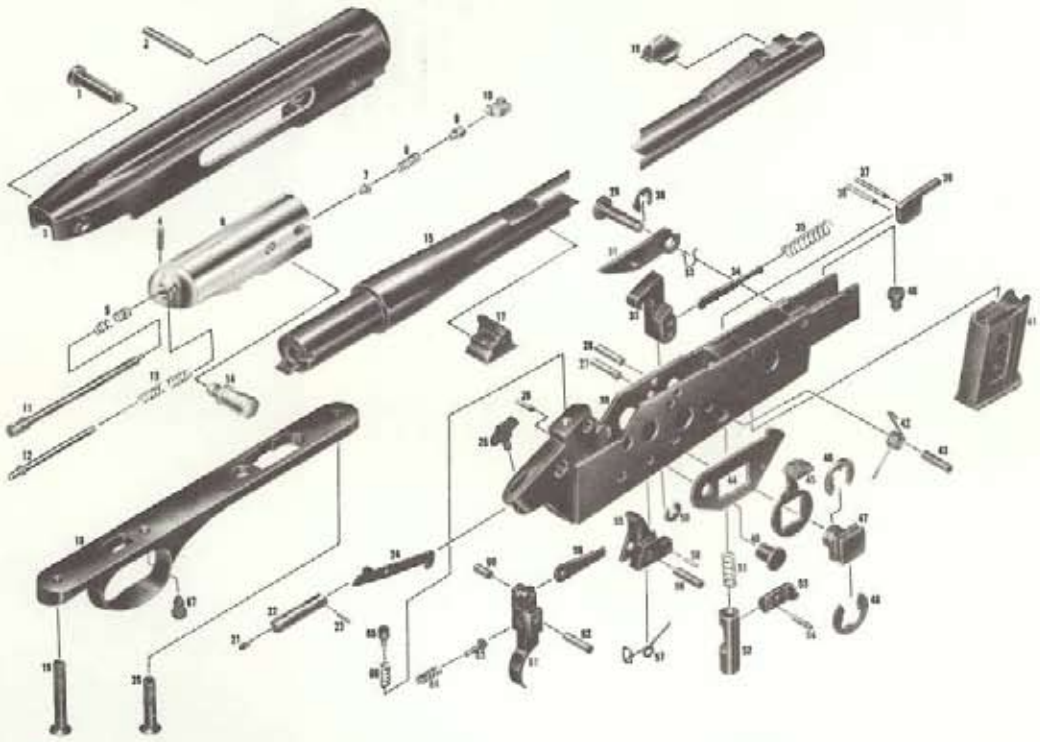


Weatherby

MARK XXII

.22 semi-automatic rifle

THE WEATHERBY MARK XXII



Weatherby, Inc.

PRINTED IN U.S.A.

LIST OF PARTS

1 Take-down pin
2 Barrel pin
3 Receiver
4 Firing pin-retaining pin
5 Firing pin spring
6 Bolt
7 Operating handle lock plunger
8 Extractor spring
9 Extractor spring plunger
10 Extractor
11 Firing pin
12 Recoil spring guide
13 Recoil spring
14 Operating handle
15 Barrel
16 Front sight
17 Rear sight
18 Trigger guard
19 Rear tang screw
20 Front tang screw
21 Safety lock screw
22 Safety plunger
23 Safety plunger pin
24 Safety lever
25 Safety
26 Safety lever pin
27 Hammer pin
28 Hammer-stop pin
29 Bolt lock pin
30 Bolt lock lock ring
31 Bolt lock lever
32 Bolt lock spring
33 Hammer
34 Hammer spring guide
35 Hammer spring
36 Ejector pin
37 Ejector pin
38 Ejector
39 Trigger & selector housing
40 Tension screw
41 Magazine (5 or 10 shots)
42 Selector lever, plate spring
43 Selector lever pin
44 Selector lever plate
45 Selector lever
46 Selector stud lock ring, small
47 Selector stud
48 Selector stud lock ring, large
49 Selector lever plate pin
50 Selector lever plate, pin, lock ring
51 Magazine release spring
52 Magazine release button
53 Magazine release latch
54 Magazine release latch pin
55 Sear
56 Sear pin
57 Disconnector spring
58 Disconnector spring pin
59 Disconnector
60 Disconnector pin
61 Trigger
62 Trigger pin
63 Trigger plunger
64 Trigger plunger spring
65 Safety lever plunger
66 Safety lever plunger spring
67 Sear engagement screw

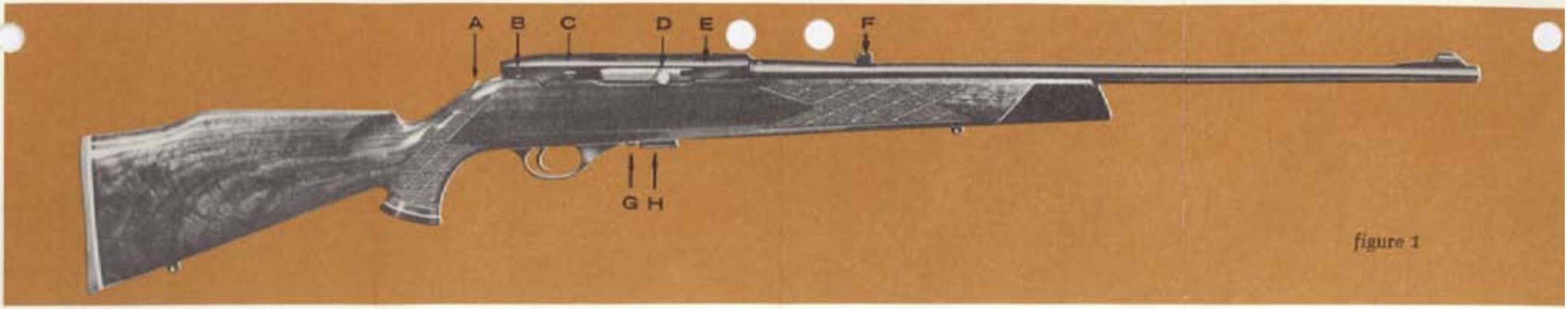


figure 1

YOUR WEATHERBY MARK XXII is the finest production sporting .22 rimfire rifle made today. We have used the same precision techniques in its manufacture that we use for the Mark V big game magnums. The finest steels and alloys, selected stock wood, and close attention to details combine to give you a .22 built to last a lifetime.

SAFETY:

The safety (see A, Fig. 1) is located conveniently on top of the tang where it may be reached with the thumb. To engage safety, pull back, exposing the "S." To release safety, push forward, covering the "S."

LOADING:

Use only .22 *long rifle* ammunition. Regular or high speed. CAUTION: Before loading, make sure the bore is free of grease or obstructions! Put rifle on "SAFE." Place Shot Selector (C) on "AUTO" position. Remove magazine by pressing button (G) to the rear of the magazine. Load magazine (H) and insert it into position. Pull back operating handle (D) and release. Safety must now be released before rifle can be fired.

UNLOADING:

Put rifle on "SAFE." Remove magazine. Put shot selector on "SS" position and pull back operating handle to extract cartridge from chamber. For maximum safety, leave bolt in opened position. (The MARK XXII is one of the few .22 LR autoloading rifles with this automatic feature.)

FIRING:

The Single Shot Selector (C) located just behind the operating handle on the right side can be set in two positions. To fire your MARK XXII as a regular *semi-automatic* (one shot for each pull of the trigger until the magazine is empty with no other operations necessary) place the Selector on "AUTO." The fired cases will be ejected and the bolt will close automatically. However, the bolt will stay open when the rifle is empty.

To fire your MARK XXII as a *single shot* rifle, place the Selector on "SS." After every shot the bolt will stay open. In order to release the bolt it will be necessary to push the Selector forward and this operation will close the bolt and chamber the next cartridge from the magazine. This is a valuable feature when teaching youngsters shooting and when on the range where safety is especially emphasized. The conscious effort required to close the bolt after each shot encourages deliberate thinking and actions . . . important in safety training.

SIGHTS:

Your MARK XXII is grooved for a telescopic sight (E). Follow scope manufacturer's recommendations for installation.

There are three folding leaf sight settings on your MARK XXII (F): 50, 75 and 100 yards. Invariably the 50-yard setting is the one most used. Practice in range estimation will help you greatly in making the most of the other two settings. Your Mark XXII was sighted using high-speed ammunition. With any .22 LR rimfire rifle a scope is recommended beyond 75 yards.

DISASSEMBLY:

BE SURE RIFLE IS UNLOADED! Remove takedown pin (B) at rear of receiver by pushing from right to left. With one hand, press forward on receiver, at the same time carefully lift barrel with the other hand. (Fig. 2) The barrel and receiver assembly will lift out of the stock. The underside of the bolt and receiver recess may be cleaned as well as the hammer and selector assemblies. NO FURTHER DISASSEMBLY IS NECESSARY OR RECOMMENDED. Disassembly of the hammer, trigger and selector assemblies should only be performed by a competent gunsmith or our factory.

figure 2

ASSEMBLY:

Carefully place barrel and receiver in stock and slide rearward until the holes in the receiver line up. Insert takedown pin at the left side of rear of receiver and press in.

CARE AND CLEANING:

As all auto-loading firearms are more sensitive to malfunctions caused by accumulations of dirt and powder fouling than *manually* operated firearms, it is important that your MARK XXII be kept clean.

TO CLEAN BORE:

BE SURE RIFLE IS UNLOADED! Pull back operating handle and leave bolt open. Insert cleaning rod from muzzle and use bristle brush or cloth patch saturated with powder solvent; follow with dry patch and lightly oiled patch.

TO CLEAN BOLT:

Clean face of bolt with brush or cloth saturated with powder solvent followed by dry cloth, then slightly oiled cloth. DO NOT USE EXCESSIVE OIL! Wipe exterior of metal parts with lightly oiled cloth or silicone cloth. Wipe stock with silicone cloth.

WARRANTY:

Your Weatherby MARK XXII rifle is a precision firearm manufactured of the finest materials and has been thoroughly inspected and tested in every phase of production. Attached to your rifle is your Weatherby Warranty. Be sure it is filled in and returned to the factory.